

Claims

- [1] An integrated electronic module structure for vehicles constructed using one connector for each wire harness, the structure comprising:
 - a first printed circuit board (PCB) having fuses and relay circuits mounted thereon;
 - a second PCB having input/output (I/O) terminals; and
 - a PCB connecting unit for electrically connecting the first and second PCBs.
- [2] The integrated electronic module structure as claimed in claim 1, wherein the connector comprises a multi-pole connector, and
 - a circuit connected between the first PCB and the I/O terminals of the second PCB, and a circuit connected between the second PCB and I/O connectors of the second PCB are integrated in one multi-pole connector, and thus the first PCB and the second PCB can be constructed using one multi-pole connector for each wire harness.
- [3] The integrated electronic module structure, as claimed in claim 1 or 2, wherein the first PCB is a junction box for vehicles.
- [4] The integrated electronic module structure, as claimed in claim 1 or 2, wherein the second PCB is an electronic control module for vehicles.
- [5] The integrated electronic module structure as claimed in claim 1 or 2, wherein the PCB connecting unit is composed of connecting pins.
- [6] The integrated electronic module structure as claimed in claim 5, wherein the connecting pins are directly inserted into the first PCB and into a part corresponding to the I/O terminals of the second PCB, then soldered, and external injection molded parts are formed to have connectors that constitute a pair of male and female connectors together with the multi-pole connectors of the wire harnesses.